

What Is Claimed Is:

1. A stripline directional coupler having two coupling conductors, which are galvanically isolated with respect to a grounding layer at zero potential and each have a port terminal on their ends, characterized by a multilayer conductor pattern having at least three metallic layers separated by at least two dielectric insulating layers, a first metallic layer forming the coupling conductor, and a second of the at least three metallic layers having a conductor pattern, which is galvanically isolated from the at least two additional metallic layers, and with the aid of which small capacitors connected in series are formed between the at least three metallic layers.
2. The directional coupler as recited in Claim 1, wherein the multilayer conductor pattern takes the form of a multilayer dielectric substrate.
3. The directional coupler as recited in Claim 1 or 2, wherein the conductor pattern galvanically isolated from at least three metallic layers by the at least two insulating layers is spatially situated between the at least three metallic layers.
4. The directional coupler as recited in one of the preceding claims, wherein the grounding layer is isolated from the metallic layer of the coupling conductor by at least one additional metallic layer.
5. The directional coupler as recited in one of the preceding claims, wherein the conductor pattern galvanically isolated from the at least three metallic layers laterally has the shape of an "H" lying crosswise in the direction of the two coupling conductors, or of a rectangle lying crosswise in the direction of the coupling conductors.
6. The directional coupler as recited in one of the preceding claims, wherein additional conductor patterns, in particular small trapezoid-like structures, are situated on the coupling conductors.

7. The directional coupler as recited in one of the preceding claims, wherein capacitive structures for adjusting impedance are situated in the corners of the port terminals of the two coupling conductors.
8. The directional coupler as recited in one of the preceding claims, wherein the internal 90° angles of the port terminals of the two coupling conductors designed to produce a small increase in area.
9. The directional coupler as recited in Claim 8, wherein the increase in area of the port terminals of the two coupling conductors is formed by a transverse triangular shape or a square shape.
10. The directional coupler as recited in one of the preceding claims, wherein the at least three metallic layers are made out of copper, and the at least two insulating layers are made out of a fiberglass/epoxy combination.